

To: Maurano, Stephen[Maurano.Stephen@epa.gov]
From: Jason W. Sutter
Sent: Mon 11/7/2016 7:32:04 PM
Subject: RE: Hardness Follow Up

Hi Stephen,

Who should we address the hardness letter to?

Jason

From: Maurano, Stephen [mailto:Maurano.Stephen@epa.gov]
Sent: Wednesday, October 19, 2016 7:40 AM
To: Jason W. Sutter <Sutter.Jason@azdeq.gov>
Cc: Krista L. Osterberg <Osterberg.Krista@azdeq.gov>; Hashimoto, Janet <Hashimoto.Janet@epa.gov>
Subject: FW: Hardness Follow Up

Hi Jason,

I'm sorry that this has become such a long running inquiry. HQ seems willing and able to answer the question, but they're interested in documenting the question and answer formally in a letter from ADEQ and response from EPA. Would you be willing to write a letter in order to receive a formal response? (which would also be to the benefit of other states/tribes that could have the same issue?) Thanks,

Stephen Maurano

U.S. Environmental Protection Agency, Region 9

Water Division, Ecosystems Branch, Assessment Section

75 Hawthorne Street (WTR-2-1), San Francisco, CA 94105-3901

(415) 972-3477 maurano.stephen@epa.gov

From: McLaughlin, Julianne
Sent: Wednesday, October 19, 2016 7:31 AM
To: Maurano, Stephen <Maurano.Stephen@epa.gov>
Cc: Fleisig, Erica <Fleisig.Erica@epa.gov>
Subject: RE: Hardness Follow Up

Hi Stephen!

What do you think about the idea of having AZ send a formal letter to EPA requesting this clarification? That would give us a vehicle to provide a public response that we could then point to if others ask as well. For the longer term, I could work with folks here and in HECD to try and work this clarification into one of our metals related documents. Let me know what you think.

Cheers,

Julie

Julianne McLaughlin, PhD

Standards and Health Protection Division

U.S. EPA | Office of Water

202-566-2542 | mclaughlin.julianne@epa.gov

From: Maurano, Stephen
Sent: Friday, October 14, 2016 12:29 PM
To: McLaughlin, Julianne <McLaughlin.Julianne@epa.gov>
Cc: Fleisig, Erica <Fleisig.Erica@epa.gov>
Subject: RE: Hardness Follow Up

Thanks so much Julianne. I see all the activities with Se, so I know you all are busy!

I did share it verbally with AZ, and they understood generally the position, but very much wanted a specific answer from our criteria folks (either HECD directly, or as you suggested, a response drafted by SHPD and vetted by HECD). If you're able to assist with that, it would be very useful to the state. They currently do not routinely have dissolved Ca and Mg analyses run, just total, so they would like a vetted answer before making changes that could impact their lab work, permit limits, assessment, etc.

We appreciate the help!

Stephen Maurano

U.S. Environmental Protection Agency, Region 9

Water Division, Ecosystems Branch, Assessment Section

75 Hawthorne Street (WTR-2-1), San Francisco, CA 94105-3901

(415) 972-3477 maurano.stephen@epa.gov

From: McLaughlin, Julianne

Sent: Friday, October 14, 2016 9:13 AM

To: Maurano, Stephen <Maurano.Stephen@epa.gov>

Cc: Fleisig, Erica <Fleisig.Erica@epa.gov>

Subject: RE: Hardness Follow Up

Hi Stephen!

Things have been pretty crazy with selenium and I haven't talked through this with HECD yet. As we talked about, I'm pretty certain what our answer is on this one and if you want me to get

an email from management for you to share with the state, I think I can make that happen. I would just have to draft it and vet it with HECD but it seems pretty straight forward.

Did you ever talk with the state after we talked when I was out in CA? I thought I remember you saying you would pass our thoughts on verbally to see what they thought.

Thanks and sorry for the delay!

Julie

Julianne McLaughlin, PhD

Standards and Health Protection Division

U.S. EPA | Office of Water

202-566-2542 | mclaughlin.julianne@epa.gov

From: Maurano, Stephen

Sent: Wednesday, October 05, 2016 5:41 PM

To: McLaughlin, Julianne <McLaughlin.Julianne@epa.gov>

Subject: Hardness Follow Up

Hi Julianne,

I was hoping to check in on the status of this inquiry from AZ regarding dissolved vs total hardness. I appreciate you looking into it, and wanted to check if you potentially had any updates based on the inquiries you made at OST?

Thanks so much,

Stephen Maurano

U.S. Environmental Protection Agency, Region 9

Water Division, Ecosystems Branch, Assessment Section

75 Hawthorne Street (WTR-2-1), San Francisco, CA 94105-3901

(415) 972-3477 maurano.stephen@epa.gov

From: Jason W. Sutter [<mailto:Sutter.Jason@azdeq.gov>]

Sent: Wednesday, October 05, 2016 9:58 AM

To: Maurano, Stephen <Maurano.Stephen@epa.gov>

Subject: Docs

Hi Stephen,

A few questions:

Have you received the disc I sent with the TR support docs?

Also, do you have any updates on the dissolved vs total hardness issue?

Jason

NOTICE: This e-mail (and any attachments) may contain PRIVILEGED OR CONFIDENTIAL information and is intended only for the use of the specific individual(s) to whom it is addressed. It may contain information that is privileged and confidential under state and federal law. This information may be used or disclosed only in accordance with law, and you may be subject to penalties under law for improper use or further disclosure of the information in this e-mail and its attachments. If you have received this e-mail in error, please immediately notify the person named above by reply e-mail, and then delete the original e-mail. Thank you.

NOTICE: This e-mail (and any attachments) may contain PRIVILEGED OR CONFIDENTIAL information and is intended only for the use of the specific individual(s) to whom it is addressed. It may contain information that is privileged and confidential under state and federal law. This information may be used or disclosed only in accordance with law, and you may be subject to penalties under law for improper use or further disclosure of the information in this e-mail and its attachments. If you have received this e-mail in error, please immediately notify the person named above by reply e-mail, and then delete the original e-mail. Thank you.